## IN THE CLAIMS:

1. (currently amended) A method comprising:

having an identity authenticated in a first system;

a second system causing a key to be generated for use in the second system;

the second system generating a certificate for the key; and

establishing the identity of the user in the second system by signing the certificate for the key using the authenticated identity of the user in the first system,

wherein the certificate for the key for use in the second system contains one or more usage limitations, at least including a temporal limit on usage, [[and]]

wherein the temporal limit requires that once a <u>secure socket layer</u> session on the second system is completed, the certificate or a corresponding key is destroyed, and

wherein said usage limitations also include a limit on use of said key for encryption only, which excludes use of said key for signature verification.

- 2. (original) A method as defined in claim 1, wherein the key is generated by the second system.
- 3. (original) A method as defined in claim 1, wherein the key is generated by the first system.
- 4. (original) A method as defined in claim 1, further comprising the step of: a third party communicating with the user of the second system and verifying the user of the second system by the authenticated identity of the user of the first system.
- 5. (original) A method as defined in claim 4, wherein the third party is a server.

- 6. (original) A method as defined in claim 4, wherein the key comprises a private-public key pair and where the certificate includes the public key of the key pair.
- 7. (original) A method as defined in claim 6, wherein the certificate further includes an identity which is the same as the authenticated identity of the user of the first system.
- 8. (original) A method as defined in claim 7, where the authenticated identity of the user in the first system comprises a private-public key pair and a certificate issued by a certification authority, and where the signing of the second system generated certificate is by hashing at least some data in the certificate to obtain a hash value, encrypting this hash value using the private key of the first system private-public key pair, and adding the encrypted hash value to the certificate.
- 9. (original) A method as defined in claim 8, wherein the private key of first system private-public key pair is stored in a wireless identity module.
- 10. (original) A method as defined in claim 9, wherein the private key of the first system is accessed by entry of a password.
- 11. (previously presented) A method as defined in claim 6, where the identity of the user in the first system comprises a private-public key pair and an associated certificate issued by a certification authority.
- 12. (original) A method as defined in claim 11, wherein the private key of first system private-public key pair is stored in a wireless identity module.

- 13. (original) A method as defined in claim 12, wherein the private key of the first system is accessed by entry of a password.
- 14. (previously presented) A method as defined in claim 1, wherein the authenticated identity of the user of the first system forming at least part of the signing of the certificate for the key for use in the second system includes encryption of data with the private key of the user of the first system, wherein the identity of the user of the first system is certified by a certification authority through a corresponding public key for the user of the first system.
- 15. (original) A method as defined in claim 14, wherein prior to signing the certificate for the key for use in the second system, the user of the first system obtains access to its private key by entry of a password.
- 16. (original) A method as defined in claim 15, wherein the password is a personal identification number.
- 17. (original) A method as defined in claim 1, wherein the certificate for the key includes the full certification tree for the key, said full certification tree including a certificate of the first system for the user of the first system.
- 18. (original) A method as defined in claim 1, wherein the first system is a wireless communication system.
- 19. (original) A method as defined in claim 18, wherein the second system a computer connected to the Internet.

- 20. (original) A method as defined in claim 17, wherein the second system uses a security protocol for establishing a secure session.
- 21. (previously presented) A method as defined in claim 20, wherein the security protocol is selected from the group consisting of transport layer security, internet protocol security protocol and secure socket layer.
- 22. (previously presented) A method as defined in claim 20, wherein the wireless communication system uses a wireless identity module in an associated wireless device of the user of the first system for establishing the identity of the user of the first system.
- 23. (previously presented) A method as defined in claim 22, wherein the wireless identity module contains a private key of the user of the first system and wherein a corresponding public key of the user of the first system is certified by a certification authority.
- 24. CANCEL.
- 25. (previously presented) A method as defined in claim 1, wherein one usage limitation is that a third party of the second system should accept the key for use in the second system only for certain types of operations.
- 26. (original) A method as defined in claim 25, wherein an accepted operation is the use of the key for use in the second system for encryption of data but not for signature verification.
- 27. (original) A method as defined in claim 1, where the certificate does not contain the identity of the user associated with the user generated key, and where the signing of the

certificate using the authenticated identity of the user of the first system includes appending the full certification tree of the first user to the user generated key.

- 28. (original) A method as defined in claim 1, where the first and second users are the same entity.
- 29. (currently amended) A method comprising:

generating a key for use in a network environment by a user having an authenticated identity not associated with said network environment;

generating a certificate for the key; and

establishing the identity of the user in said network environment by signing the certificate for the key using the user's authenticated identity,

wherein the certificate for the key for use in the network environment contains one or more usage limitations, at least including a temporal limit on usage, [[and]]

wherein the temporal limit requires that once a <u>secure socket layer</u> session on the second system is completed, the certificate or a corresponding key is destroyed, <u>and</u>

wherein said usage limitations also include a limit on use of said key for encryption only, which excludes use of said key for signature verification.

## 30. (currently amended) A system comprising:

a device forming part of a second system, the device having means for causing a key to be generated for use in the second system by a user having an authenticated identity in a first system,

said device of the second system having means for generating a certificate for the key; and

a second device forming part of the first system, the second device having means for storing information regarding the authenticated identity of the user in the first system, said second device further having means for communicating said information; and wherein the device of the second system has means for receipt of said information from the second device, and further has means for establishing the identity of the user in the second system by signing the certificate for the key using the authenticated identity of the user in the first system,

wherein the certificate for the key for use in the second system contains one or more usage limitations, at least including a temporal limit on usage, [[and]]

wherein the temporal limit requires that once a <u>secure socket layer</u> session on the second system is completed, the certificate or a corresponding key is destroyed, and

wherein said usage limitations also include a limit on use of said key for encryption only, which excludes use of said key for signature verification.

- 31. (original) A system as defined in claim 30, wherein the device of the second system further comprises means for generating said key.
- 32. (original) A system as defined in claim 30, wherein the second device forming part of the first system further comprises means for generating said key.
- 33. (original) A system as defined in claim 30, wherein a third party communicates with the user of the second system, said third party communicating via a third device, said third device having means for verifying the user of the second system by the authenticated identity of the user of the first system.
- 34. (original) A system as defined in claim 33, wherein the third device is a server.
- 35. (original) A system as defined in claim 30, wherein the key comprises a private-public key pair and where the certificate includes the public key of the key pair.

- 36. (original) A system as defined in claim 35, wherein the certificate further includes an identity which is the same as the authenticated identity of the user of the first system.
- 37. (previously presented) A system as defined in claim 36, where the authenticated identity of the user in the first system comprises a private-public key pair and a certificate issued by a certification authority, and where the means for signing the second system generated certificate is by encrypting this second system generated certificate using the private key of the first system private-public key pair.
- 38. (original) A system as defined in claim 37, wherein the private key of the first system private-public key pair is stored in a wireless identity module forming part of the second device.
- 39. (original) A system as defined in claim 38, wherein the second device includes means for user entry of information, wherein the private key of the first system is accessed by entry of a password via said user entry means.
- 40. (previously presented) A system as defined in claim 35, where the identity of the user in the first system comprises a private-public key pair and an associated certificate issued by a certification authority.
- 41. (original) A system as defined in claim 40, wherein the private key of the first system private-public key pair is stored in a wireless identity module forming part of the second device.

- 42. (original) A system as defined in claim 41, wherein the private key of the first system is accessed by entry of a password.
- 43. (previously presented) A system as defined in claim 30, where the user of the first system authenticated identity includes a private-public key pair, where the identity of the user of the first system is certified by a certification authority through a corresponding public key for the user of the first system, and wherein the means for signing the certificate includes signing the certificate for the key for use in the second system by encryption of data with the private key of the user of the first system.
- 44. (original) A system as defined in claim 43, wherein the second device includes means for user entry of information, and wherein the user of the first system obtains access to its private key by entry of a password via said user entry means.
- 45. (original) A system as defined in claim 44, wherein the password is a personal identification number.
- 46. (original) A system as defined in claim 30, wherein the certificate for the key includes the full certification tree for the key, said full certification tree including a certificate of the first system for the user of the first system.
- 47. (original) A system as defined in claim 30, wherein the first system is a wireless communication system.
- 48. (original) A system as defined in claim 47, wherein the second system is a computer connected to the Internet.

- 49. (original) A system as defined in claim 44, wherein the second system uses a security protocol for establishing a secure session.
- 50. (previously presented) A system as defined in claim 49, wherein the security protocol is selected from the group consisting of transport layer security, internet protocol security protocol and secure socket layer.
- 51. (previously presented) A system as defined in claim 49, wherein the second device forming part of the wireless communication system includes a wireless identity module for storing information used to establish the identity of the user of the first system.
- 52. (previously presented) A system as defined in claim 51, wherein the wireless identity module contains a private key of the user of the first system and wherein a corresponding public key of the user of the first system is certified by a certification authority.

## 53. CANCEL.

- 54. (original) A system as defined in claim 53, wherein one usage limitation is that a third party of the second system should accept the key for use in the second system only for certain types of operations.
- 55. (original) A system as defined in claim 54, wherein an accepted operation is the use of the key for use in the second system for encryption of data but not for signature verification.
- 56. (previously presented) A system as defined in claim 30, where the certificate does not contain the identity of the user associated with the user generated key, and where the means for

signing of the certificate using the authenticated identity of the user of the first system including appending the full certification tree of the first user to the user generated key.

- 57. (original) A system as defined in claim 30, where the first and second users are the same entity.
- 58. CANCEL.
- 59. CANCEL
- 60. (currently amended) A wireless device comprising:

means for storing information regarding an authenticated identity of a user in a first system associated with the wireless device;

means for receipt of a certificate from a second device that is part of a second system, the certificate being for a key that is for use in the second system; and

means for establishing the identity of the user in the second system by signing the certificate using the authenticated identity of the user in the first system and transferring the signed certificate to the device of the second system.

wherein the certificate for the key for use in the second system contains one or more usage limitations, at least including a temporal limit on usage, [[and]]

wherein the temporal limit requires that once a <u>secure socket layer</u> session on the second system is completed, the certificate or a corresponding key is destroyed, <u>and</u>

wherein said usage limitations also include a limit on use of said key for encryption only, which excludes use of said key for signature verification.

61. (original) A wireless device as defined in claim 60, wherein the second device includes means for generating the key to be used in said second system.

- 62. (original) A wireless device as defined in claim 60, wherein the wireless device further comprises means for generating the key to be used in the second system.
- 63. (previously presented) A wireless device as defined in claim 60, where the authenticated identity of the user in the first system comprises a private-public key pair and a certificate issued by a certification authority, and where the means for signing the second system generated certificate is by encrypting this second system generated certificate using the private key of the first system private-public key pair, wherein the wireless device includes a wireless identity module for storing said private key of the first system private-public key pair.
- 64. (original) A wireless device as defined in claim 63, wherein the wireless device includes means for user entry of information, wherein the private key of the first system is accessed by entry of a password via said user entry means.
- 65. (currently amended) A program stored on a computer readable medium for execution by a processor, the program having code for:

generating a key for use in a network environment by a user having an authenticated identity not associated with said network environment;

generating a certificate for the key; and

establishing the identity of the user in said network environment by signing the certificate for the key using the user's authenticated identity,

wherein the certificate for the key for use in the network environment contains one or more usage limitations, at least including a temporal limit on usage, [[and]]

wherein the temporal limit requires that once a <u>secure socket layer</u> session on the second system is completed, the certificate or a corresponding key is destroyed, <u>and</u>

wherein said usage limitations also include a limit on use of said key for encryption only, which excludes use of said key for signature verification.

## 66. (currently amended) A wireless device comprising:

storage module configured to store information regarding an authenticated identity of a user in a first system associated with the wireless device;

receiving module, configured to receive a certificate from a second device that is part of a second system, the certificate being for a key that is for use in the second system; and

signing module configured to establish the identity of the user in the second system by signing the certificate using the authenticated identity of the user in the first system and transferring the signed certificate to the device of the second system,

wherein the certificate for the key for use in the second system contains one or more usage limitations, at least including a temporal limit on usage, [[and]]

wherein the temporal limit requires that once a <u>secure socket layer</u> session on the second system is completed, the certificate or a corresponding key is destroyed, <u>and</u>

wherein said usage limitations also include a limit on use of said key for encryption only, which excludes use of said key for signature verification.

67. (previously presented) A wireless device as defined in claim 66, wherein the second device includes a generating module configured to generate the key to be used in said second system.